Some Schools Examinations



on Algebra and Statistics

Cairo Governorate

Nozha Directorate of Education Nozha Language Schools



Answer the following questions:

تابع جدہد زاکر ولی علی موقعنا https://www.zakrooly.com

Choose the correct answer:

- 1 The degree of the algebraic term $5 \times y^2$ is
 - (a) zero
- (b)2
- (c)3
- (d) 5
- 2 The number $\frac{x+3}{x-5}$ equals zero if $x = \dots$
 - (a) 3
- (b) 3

(c) 5

- (d) 5
- 3 The multiplicative inverse of $\left(\frac{2}{5}\right)^0$ is
 - (a) 1
- (b) 1
- $(c) \frac{2}{5}$
- (d) $\frac{-5}{2}$
- 4 The mode of the numbers: 5,8,4,9 and 8 is
 - (a) 9

- (c) 8
- (d) 5

- 5 The H.C.F. of $12 x^3 + 6 x^2$ is
 - (a) 6
- (b) $6 x^2$
- (c) χ^2
- (d) $3 x^2$

2 Complete:

- $1 (X y) (X + y) = \cdots$
- $(3 \times + 5)^2 = \cdots + 30 \times + \cdots$
- 3 The arithmetic mean of the values: 5,4,8,3,10 is
- $(3 \times \cdots 12 \times + 4)^2 = \cdots 12 \times + 4$
- The number that lies half way between $\frac{2}{7}$ and $\frac{6}{7}$ is
- 3 [a] 1 Add: 5a-2b+4c and 4b-3a+c
 - **2** Subtract: $2x^2 + 5xy y^2$ from $(2x + y)^2$
 - [b] Factorize by using the H.C.F: $4 \times^2 y^3 2 \times y^2 + 6 \times^3 y$
- [a] Divide: $x^2 5x + 6$ by x 2 (where $x \ne 2$)
 - [b] Use the distribution property to find : $\frac{5}{9} \times 4 + \frac{5}{9} \times 6 \frac{5}{9}$
- [a] Simplify: $(x y)(x + y) (x y)^2$, then calculate the numerical value of the result when x = 2, y = -1
 - [b] Find the mean and the median of the values: 20, 15, 25, 10, 30, 7



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Cairo Governorate

Rod El-Ferag Educational Zone St. Mary's School



Answer the following questions:

Choose the correct answer :

- 1 If the arithmetic mean of the numbers: 5, 8, 7, k, 9, 3 is 6, then $k = \dots$
 - (a) 3

- (b) 4
- (c)5
- (d) 6
- - (a) $\frac{4}{3}$
- (b) $-\frac{3}{4}$
- (c) $-\frac{4}{3}$
- (d) 1
- 3 If $(x-6)(x+6) = x^2 + k$, then $k = \dots$
 - (a) 10
- (b) 36
- (c) 10
- (d) 36
- 4 If the order of the median of a set of values is the fourth, then the number of these values equals
 - (a) 3
- (b) 5
- (c)7
- (d)9
- 5 The rational number that lies on third of the way between 8 and 12 from the smaller is
 - (a) $8\frac{1}{3}$
- (b) 10
- (c) $9\frac{1}{3}$
- (d) $10\frac{2}{3}$

- **6** | -3 | + | -5 | = ···········
 - (a) 2
- (b) 2
- (c) 8
- (d) 8

2 Complete:

- 1 The algebraic term 6 x y³ whose degree is
- 2 The mode of the values: 3, 3, 5, 4, 4, 3 is
- $3(2x-3)(4x+5) = \cdots + \cdots$
- 4 1 , 4 , 9 , 16 , (in the same pattern)
- The number $\frac{5}{x-4}$ is rational if $x \neq \dots$
- 3 [a] Subtract: $3x^2 5xy + 6y^2$ from $2x^2 4xy 2y^2$
 - [b] Find the quotient: $2 x^3 + 11 x^2 + 12 x 9$ by x + 3 where $x \ne -3$
- [a] Find three rational numbers between: $\frac{1}{2}$ and $\frac{2}{3}$
 - [b] Simplify to the simplest form: $(2 \times -3)(2 \times +3) + 7$
 - , and calculate the numerical value of the result when x = 1



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- [a] Use the distribution property to find the value of : $\frac{7}{9} \times 14 + \frac{7}{9} \times 6 \frac{7}{9} \times 2$ (without using the calculator)
 - [b] This table shows a pupil's marks of mathematics in five months:

Month	Oct.	Nov.	Dec.	Feb.	March
Marks	40	30	55	45	35

Find: 1 The arithmetic mean of the marks.

2 The median of the marks.

Cairo Governorate

Maadi Zone Degla Valley Language School



Answer the following questions:

- Choose the correct answer:
 - 1) The arithmetic mean of the numbers: 3,6,1,6 is
 - (a) 4

(b) 3

- (d) 18
- 2 The mode of the values: 4,5,4,3,4 is
 - (a) 3

- (b) 4

- (d) 4.5
- 3 The degree of the algebraic expression: $5 x^3 + 2 x^2 7$ is the
 - (a) fifth.
- (b) third.
- (c) first.
- (d) second.

- 4 If $\frac{x}{y} = \frac{2}{3}$, then $\frac{3x}{2y} = \dots$
- (b) $\frac{3}{2}$
- (c) $\frac{9}{4}$
- (d) 1

- - (a) 3

- (b) 7
- (d)7
- 6 The median of the values: 2, 1, 6, 5, 7 is
 - (a) 2

- (b) 6
- (c) 5
- (d)7

2 Complete:

- $\frac{3}{4} = \dots \%$
- $2(x-5)(x+5) = \cdots$
- **3** 12 x^2 y ³ ÷ 4 x y =
- 4 The remainder of subtracting $-7 \times^2$ from $2 \times^2$ is
- **5** The rational number that lies at half the way between: $\frac{1}{4}$ and $\frac{1}{2}$ is



Algebra

التخصل الكولسي الكول

[3] [a] If $x = \frac{3}{4}$, $y = \frac{-5}{2}$, find in the simplest form the value of: $(x - y) \div (x + y)$

[b] Add:
$$3x^2 + 2x - 5$$
 and $2x^2 - 5x + 3$

4 [a] Divide: $\frac{10 \times 5 - 6 \times^3 + 4 \times^2}{2 \times^2}$

[b] Use the distribution property to find the value of : $\frac{3}{7} \times \frac{5}{6} + \frac{3}{7} \times \frac{7}{6} - \frac{3}{7}$

[c] Complete:
$$3 x^2 - 6 x y = 3 x (\dots)$$

[a] Simplify: (2 a - 3) (2 a + 3) + 7

[b] Write three rational numbers between: $\frac{1}{3}$ and $\frac{5}{6}$

[c] Find the mean of the values: 2,5,3,6,9

Giza Governorate

Al-Agoze Directorate Supervision of Meth



Answer the following questions:

1 Choose the correct answer:

1 If $\frac{3}{x-5}$ is a rational number, then $x \neq \dots$

- (a) zero
- (b) 3
- (c) 5
- (d)5

2 The algebraic term $2 x^2 y$ is of the degree.

- (a) first
- (b) second
- (c) third
- (d) fourth

3 If 5 a = 45, a b = 1, then $b = \dots$

- (a) $\frac{1}{9}$
- (b)5
- (c) $\frac{1}{5}$
- (d) 9

4 Fifth the number $5^{10} = \cdots$

- (a) 5^9
- (b) 5^5
- (c) 5^{11}
- (d) 3^9

The value of the digit 7 in the number 0.4753 is

- (a) $\frac{1}{10}$
- (b) $\frac{7}{100}$ (c) $\frac{7}{1000}$
- (d)7

6 The mode of the values: 5,7,3,5 is

- (a) 5
- (b) 7
- (c)3
- (d)4

2 Complete:

1 $(2 a - 3 b) (a + 5 b) = 2 a^2 + \dots$

2 If three times a number is 15, then fifth this number is



- 4 5 a² increases 3 a² by
- 5 The median of the values: 4,8,3,5,7 is
- [a] Use the distribution property to get the result of : $\frac{3}{5} \times 2 + \frac{3}{5} \times 6 \frac{3}{5} \times 3$
 - **[b] Simplify:** $(2 \times -3) (2 \times +3) + 7$
- [a] Find two rational numbers between: $\frac{1}{3}$ and $\frac{1}{2}$
 - [b] What is the increase of: 7 x + 5 y + z than 2 x + 6 y + z?
- [a] Factorize by taking out the H.C.F.: $18 \times^2 y^3 + 6 \times^3 y^2 3 \times^2 y^2$
 - [b] If the arithmetic mean of the values: 8,7,5,9,4,3,k+4 is 6, find the value of : k

Giza Governorate

Omrania Directorate El-Sedet Governmentel Lenguege School



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Answer the following questions:



- 1 The algebraic term $7 \times y^3$ whose degree is
 - (a) 1

(b)2

- (c)3
- (d)4
- 2 The remainder of subtracting 3 X from 5 X is
 - (a) 2 X
- (b) -2 X
- (c) 8 X
- (d) $2 x^2$
- The median of the values: 4,8,3,5 and 7 is
 - (a)3

(b) 4

(c)5

(d)7

- 4 If $\frac{a}{b} = 1$, then 5 a 5 b =
 - (a) zero
- (b) 1

- (c) 3
- (d)5
- The mode of the values: 7,3,7,2 and 7 is
 - (a) 3

(b)7

(c) 2

(d)5

- **6** If $\frac{15}{x} = \frac{3}{4}$, then $x = \dots$
 - (a) 20
- (b) 20
- (c) 5

(d) - 5

Complete each of the following:

- 2 The additive identity element in Q is



Algebra

التخصل الكولسي الكول

- 3 The mean of the numbers: 6, 4, 1, 5 and 9 is
- 4 If $\frac{x+3}{x-2} \in \mathbb{Q}$, then $x \neq \dots$
- 5 The rational number in half way between: $\frac{1}{7}$ and $\frac{5}{7}$ is
- [a] Add: $5x^2 7xy + 4y^2$ and $4x^2 + 5xy 9y^2$
 - [b] Use the distribution property to find : $\frac{8}{13} \times 11 + \frac{8}{13} \times 9 + \frac{8}{13} \times 6$
- [a] Simplify: (x-5)(x+5)+25, then find the value of the result if x=3
 - [b] Find three rational numbers between: $\frac{1}{3}$ and $\frac{1}{2}$
- [a] Factorize by taking out the H.C.F.: $27 \times^3 y^2 9 \times^2 y^3 + 3 \times y$
 - [b] The following table shows the distribution of marks of 20 students in an exam:

Marks	7	8	9 .	10	Total
No. of students	5	9	4	2	20

Find the mode of these marks.

Alexandria Governorate

Middle Educational Zone Meth's Supervision



لا تئس الاشئر اك في

قنـوات زاكـرولى

على نطيق الثليجرام

Answer the following questions:

Complete each of the following:

- 1 If $\frac{4}{6} = \frac{12}{x}$, then $x + 2 = \dots$
- 2 The multiplicative inverse of $-\frac{2}{3}$ is
- $\frac{1}{2} = \dots \%$
- 4 The rational number in half way between $\frac{3}{5}$ and $\frac{4}{5}$ is
- 5 If a + 3b = 7, and c = 3, then the numerical value of : a + 3(b + c) is
- B The arithmetic mean of the set of values: 2,3,8,2,5 equals

2 Choose the correct answer:

- 1 $0.0635 \simeq \dots$ to the nearest hundredth.
 - (a) 0.63
- (b) 0.07.
- (c) 0.06
- (d) 0.063

- 2 0.7 + 0.3 = ···············
 - (a) 1
- (b) 3.7
- (c) 0.37
- (d) $1\frac{1}{30}$
- 3 If the order of the median of a set of values is the fourteenth, then the number of these values equals
 - (a) 27
- (b) 15
- (c) 7
- (d) 28



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 $\boxed{4}(4 \times -3)(x - 4) = \cdots$

- (a) $4x^2 19x 12$ (b) $4x^2 7$ (c) $4x^2 12$
- $(d)4 x^2 19 x + 12$

5 The mode of the values: 3, 3, 4, 4, 5, 3 is

(a) 4

- (b)22
- (c) 5

(d)3

[a] Multiply: (2 X + y) (X + 2 y), then find the numerical value at: X = 2, y = 1

[b] Use the distribution property to find: $\frac{7}{12} \times \frac{23}{45} + \frac{17}{12} \times \frac{23}{45} - 2 \times \frac{23}{45}$

4 [a] Divide: $x^3y - 4xy^2 + 6xy + x^2y^2$ by xy

[b] Find three rational numbers between: $\frac{4}{5}$ and $\frac{2}{3}$

[a] Subtract: $5 x^2 + y^2 - 3 x y$ from $x^2 - 2 x y + 3 y^2$

[b] The following table shows the marks of Alaa in maths tests in 6 months:

Month	Oct.	Nov.	Dec.	Feb.	March	April
Mark	41	35	47	37	44	48

Find: 1 The median for the previous marks. 2 The mean for the previous marks.

Alexandria Governorate

El-Montaza Educational Zone Meth's Supervision



Answer the following questions:

1 Choose the correct answer:

- - (a) 1

- (b) 1

2 The degree of the algebraic expression: $3 x^2 + 5 x y^2 + 6 y^2$ is

- (a) zero
- (b) second
- (c)third
- (d) fourth

 $\Im \operatorname{If} \frac{x}{y} = 1$, then $3x - 3y = \dots$

- (a) zero
- (b) 1

(c)3

(d)6

4 If the arithmetic mean of six values is 12, then the sum of these values equals

(a)2

(b)6

- (c) 18
- (d)72

5 The rational number that lies at the midpoint of the distance between $\frac{1}{4}$ and $\frac{1}{3}$ is

- (b) $\frac{7}{12}$
- (c) $\frac{3}{4}$

6 The length of a rectangle is 2 \times cm. and its width is y cm., then its perimeter =

- (a) 2 X y
- $(b)3 \chi y$
- (c)2X + y
- (d)4 X + 2 y

2 Complete:

- 1 2 $x^3 \times 3 x y = \dots$
- 2 2 ½ × ····· = 1
- **3** The remainder of subtracting $(-3 \times)$ from $(2 \times)$ is
- 4 If the mode of the values: 7,5,a+3,5,7 is 7, then $a = \dots$
- **5** The median of the values: 5, 9, 7, 4, 3, 8 is

[a] Use the distribution property to find the value of : $\frac{5}{17} \times 10 + \frac{5}{17} \times 23 + \frac{5}{17}$.

- [b] Add: 2a-3b+5c and 3a+b-5c
- [c] Divide: $6 x^2 y^2 + 9 x^2 y^3$ by $6 x^2 y^2$ $(x \ne 0, y \ne 0)$

[a] If $a + b = \frac{5}{4}$ and $b + c = \frac{3}{4}$, find the value of: a + 2b + c

- [b] From: $5 x^2 + 4 x 3$ subtract: $4 x^2 5 x + 3$
- [c] Simplify: $(x-1)^2 + (x+3)(x-3)$

[a] Factorize: $12 a^2 b + 18 a^3 b^2$

- [b] If $a^2 = 25$, $b^2 = 9$ and ab = 15, then find the value of: $(a b)^2$
- [c] If the arithmetic mean of the values: 3,5 and x + 2 is 4 , then find the arithmetic mean of the two values : 5-x , 5+2x
- [d] If the set of ages of pupils in one school is as follows: {7,9,13,6,8,12,10,14,11}, find the median age of this set.

El-Kalyoubia Governorate

Directorate of Education Math Supervision



Answer the following questions:

Choose the correct answer:

- 1 | -5 | |2 | =
 - (a) 3
- (b) -7
- (c) 10
- (d) 3

2 If the arithmetic mean for the numbers 3,5,x is 4, then $x = \dots$

- (a) 3
- (b) 4
- (c) 5
- (d) 6

3 The remainder of subtracting 9 x from 7 x equals

- (a) 2 X
- (b) -2 X
- (c) 16 X
- (d) 2

4 If 6, 5, 12 and x are proportional numbers, then $x = \dots$

- (a) 8
- (b) 10
- (c) 5
- (d) 7



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Algebra

المخصل الكولسي الكولل

- **5** The algebraic term 3×2^2 y is of the degree.
 - (a) third
- (b) fourth
- (c) fifth
- (d) sixth
- 6 If the mode of the values: 7,5,x+4,5,7 is 5, then $x = \dots$
 - (a) 1

- (b) 4
- (c)5

(d) 7

2 Complete each of the following:

- 2 12 % of 500 kg. = kg.
- 3 The median of the values: 4,8,3,5,7 is
- 4 The rational number which hasn't a multiplicative inverse is
- 5 The rational number that lies one third of the way between 8 and 12 from the smaller number is
- [a] Find three rational numbers that lie between: $\frac{1}{2}$ and $\frac{1}{3}$
 - [b] Simplify to the simplest form: $(x+5)^2 + (x+2)(x-2)$

4 [a] 1 Subtract:
$$5x^2 + y^2 - 3xy - 1$$
 from $6x^2 - 2xy + 3y^2$

2 Divide:
$$x^2 - 5x + 6$$
 by $x - 3$ (where $x \ne 3$)

[b] If
$$a = \frac{3}{4}$$
, $b = -\frac{5}{2}$, find in the simplest form the numerical value of: $\frac{a+b}{a-b}$

- [a] The length of a rectangle is $4 \times cm$, and its width is $3 \times cm$, calculate its area.
 - [b] The following table shows Gehad's marks in mathematics exam in 6 months:

Month	October	November	December	February	March	April
Mark	20	25	42	27	40	50

Find the arithmetic mean of the marks.

El-Gharbia Governorate

East-Tenta Educational Directorate Al-Selem Lenguage School



Answer the following questions:

Complete each of the following:

$$\frac{3}{4} + 50 \% = \frac{\dots}{\dots}$$

$$2\frac{4}{5} = \dots \%$$

تابع جدہد ذاکرولی علی وائےس اب تليجــر ام



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Algebra

المجسل الكوليسي الكولي

- 4 The most repeated value of a set of values is called
- 5 The smallest natural number is
- **6** If the arithmetic mean of the values: 8, x, 7, 5 is 6, then $x = \dots$

2 Choose the correct answer:

- 1 The number $\frac{5}{3} > \dots$
 - (a) $\frac{10}{3}$
- (b) $\frac{25}{9}$
- (c) $\frac{10}{6}$
- (d) $\frac{3}{5}$

- 2 If 3 a = 27 and ab = 1, then $b = \dots$
 - (a) $\frac{1}{9}$
- (b) $\frac{1}{5}$
- (d) 9
- 3 The coefficient of the algebraic term $-5 \times 2^{\circ}$ y is
 - (a) 5
- (b) 5
- (c) 3
- (d) 3
- - (a) 10
- (b) 11
- (c) 7
- (d) 21

- 5 The H.C.F. of: $10 x^2 + 5 x$ is
 - (a) 2 X
- (b) 5x
- (c) 5
- (d) X

- 3 [a] Add: 2a-3b+5c and 3a+b-5c
 - [b] Divide: $x^2 + 6x + 5$ by x + 5 (where $x \ne -5$)
- [a] Use the property of distribution to find the value of:

$$\frac{6}{37} \times 7 + \frac{6}{37} \times 5 + \frac{6}{37} \times (-11)$$

- [b] Factorize by identifying the H.C.F.: $27 \times^4 18 \times^3$
- 5 [a] Add: 2x + y + 5 and 3x + 2y 1
 - [b] 1 Find the mode of: 2,4,7,4,5
 - 2 Find the median of: 4,8,3,5,7

El-Dakahlia Governorate

Math's Supervision



Answer the following questions:

- Choose the correct answer:
 - 1 If $a \times \frac{b}{3} = \frac{a}{3}$, then $b = \dots$
 - (a) $\frac{a}{2}$
- (b) 0
- (c) a
- (d) 1



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2 If the mode of the values: 7.5.y + 3.5 and 7 is 7, then $y = \cdots$

(a) 3

- (b) 4

(d)7

The algebraic term $2^2 \times x^3 y^2$ is of the degree.

- (a) third
- (b) fourth
- (c) fifth
- (d) seventh

 $4(15 x^4 + 5 x^3) \div 5 x^3 = \cdots$

- (a) $3 x^2 + x$ (b) $5 x^2 + 1$
- (c) 3 X + 1
- (d) $4 x^4$

- (a) $\frac{2}{3}$
- (b) $\frac{3}{4}$
- (c) $\frac{4}{9}$
- (d) $\frac{3}{27}$

6 The additive inverse of the number $\left(\frac{1}{2}\right)^{\text{zero}}$ is

(a) 2

- (b) 1
- (c) 1

(d) - 2

2 Complete each of the following :

1 The order of the median for the values: 4,8,7,5,3 is

2 0.18 - 30 % =

3 If $(2 X + y)^2 = 4 X^2 + k X y + y^2$, then $k = \dots$

4 If $\frac{5}{a+2}$ is a rational number, then $a \neq \dots$

The arithmetic mean for the values: 18,35,24,7 is

[a] Use the distribution property to find the value of :

$$\frac{7}{12} \times \frac{23}{45} + \frac{17}{12} \times \frac{23}{45} - 2 \times \frac{23}{45}$$

[b] Subtract: $(-x^2-4x+7)$ from $(3x^2-4x-2)$

[a] Factorize by identifying the H.C.F.: 3 a (4 a + 5 b) - 2 b (4 a + 5 b)

[b] Find three rational numbers between: $\frac{4}{5}$ and $\frac{2}{3}$

[a] Simplify to the simplest form: (y-3)(y+3)+9

[b] The following table shows a student's marks of mathematics in 6 months:

Month	Oct.	Nov.	Dec.	Feb.	March	April
Mark	41	35	47 .	37	44	48

Find: 1 The median for the previous marks.

The mean for the previous marks.



Suez Governorate

Directorate of Education Mathematics inspectorate



Answer the following questions:

Choose the correct answer:

(a) 2

(b) - 2

(c) 1

(d) - 1

2 The degree of the algebraic term $6 \times 3 \text{ y}^2$ is degree.

(a) third

(b) fourth

(c) fifth

(d) sixth

3 2 a $b^2 \div zero = \cdots$

(a) undefined.

(b) zero.

(c) a b

(d) $2 a b^2$

4 If the mode of the values: 7,5,x+4,5,7 is 5, then $x = \dots$

(a) 7

(b) 4

(c) 5

(d) 1

5 If $\frac{5}{x+2}$ is a rational number, then $x \neq \dots$

(a) - 2

(b) 0

(c) 2

(d) 5

6 The number that lies half way between $\frac{1}{3}$ and $\frac{5}{9}$ is

(a) $\frac{2}{3}$

(b) $\frac{3}{4}$

(c) $\frac{4}{9}$

(d) $\frac{3}{27}$

2 Complete:

 $1 \ 2 \frac{1}{5} \times \cdots = 1$

2 If the order of the median of the values is fourteenth, then the number of these values

The result of subtracting $-7 \times x$ from $2 \times is$

 $4(2x-3)(x+5)=2x^2+\cdots -15$

5 The arithmetic mean of the values: 1,6,8,4,6 is

[a] By using the distribution property, find the value of: $\frac{3}{7} \times 2 + \frac{3}{7} \times 6 - \frac{3}{7}$

[b] Find three rational numbers between: $\frac{1}{2}$ and $\frac{1}{2}$

[a] Find the quotient: $2 x^2 + 13 x + 15$ by x + 5

[b] Simplify to its simplest form: (x + 3)(x - 3) + 9

, then find the numerical value at x = 5

[a] What is the increase of: 7x + 5y + 2 than 2x + 6y + 7?

[b] Factorize by taking out the H.C.F: $12 a^2 b + 18 a^3 b^2$



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Port Said Governorate

East Educational Administration Math Orientation



Answer the following questions:

Complete each of the following:

1 24 $x^4 y^6 = 6 x^2 y^3 \times \dots$

The remainder of subtracting -3×10^{-3} from 2×10^{-3} is

3 1, 1, 2, 3, 5, 8, (in the same pattern).

4 If the mode of the values: 7,5,a+3,5,7 is 7, then $a = \dots$

 $[5] 5 x^2 + 15 x y = 5 x (\dots + \dots)$

2 Choose the correct answer from those given:

1 The algebraic term $8 \times x^3 y^2$ is of the degree.

(a) third

(b) fourth

(c) fifth

(d) sixth

(a) $\frac{2}{3}$

(b) $\frac{3}{4}$

(d) $\frac{3}{27}$

(a) 2

(b) - 2

(c) 1

(d) - 1

4 If $\frac{3}{x+2}$ is a rational number, then $x \neq \dots$

(a) - 2

(b) zero

(c) 2

(d) 5

5 The median of the values: 5, 4, 7 is

(a) 4

(b) 5

(c)7

(d) 16

6 If the arithmetic mean for the set of values: 3,5,x+2 is 4

, then the arithmetic mean for the two values : 5 - x, 5 + 2 x is

(a) 6

(b) 4

(c) 3

(d) 2

[a] Use the distribution property to find the value of : $\frac{3}{7} \times 2 + \frac{3}{7} \times 6 - \frac{3}{7}$

[b] Find three rational numbers that lie between: $\frac{1}{2}$ and $\frac{1}{3}$

[a] What is the increase of: 7x + 5y + z than 2x + 6y + z?

[b] Divide: $14 x^2 y - 35 x y^2 + 7 x y$ by 7 x y, $x \neq zero$, $y \neq zero$

[a] Simplify to the simplest form: (x-3)(x+3)+9

Algebra

[b] The following table shows Gehad's marks of mathematics in 6 months:

	Month	October	November	December	February	March	April
Ī	Mark	30	35	42	37	44	50

Find the arithmetic mean of the marks.

Kafr El-Sheikh Governorate

Mathematics Inspectorate Language Schools



Answer the following questions:

Choose the correct answer:

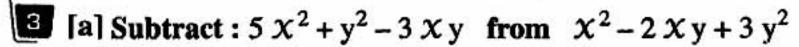
- 1 The median of the values: 7,3,4,5,2 is
 - (a) 7
- (b) 5
- (c) 4
- (d)3
- The rational number $\frac{x-7}{x+3}$ = zero, when
 - (a) x = -3
- (b) x = 7
- (c) $X \neq 3$
- (d) $x \neq 7$
- The quotient of dividing $2.25 \div 1.5 = \cdots$
 - (a) 1.5
- (b) 15
- (c) 0.15
- (d) 500
- 4 The arithmetic mean of the numbers: 3,9,1,7 is
 - (a) 20
- (b) 5
- (c) 4
- (d) 3

- $\boxed{5}(x^2+x) \div x = \cdots$
 - (a) zero
- (b) X
- (c) 2 X + 1
- (d) $\chi + 1$

- $|6| \frac{-5}{3}|$ zero.
 - (a) <
- (b) =
- (c) >
- (d) ≤

Complete:

- $16 b^3 = 2 b \times \dots$
- The mode of the values: 7,5,a+4,5,7 is 7, then $a = \dots$
- The additive inverse of $\left[4 \times \left(-1 \frac{1}{4}\right)\right]$ is
- 4 The degree of the algebraic term : $3^2 \times x^2 y^2$ is
- 5 The rational number that hasn't a multiplicative inverse is



[b] Use the distribution property to find: $\frac{5}{7} \times 5 + \frac{5}{7} \times 10 - \frac{5}{7}$

[c] Simplify: (2 X + 3) (2 X - 3) + 7



Algebra

[a] If $x = \frac{3}{4}$, $y = -\frac{5}{2}$, find the numerical value of: $(x - y) \div (x + y)$

[b] Divide: $6x^2 - xy - 15y^2$ by 2x + 3y where $(2x + 3y) \neq 0$

[c] Add: $3a^2 + 2a + 5$ and $2a^2 - 5a + 3$

[a] Factorize by identifying the H.C.F.: $12 \times y^3 + 18 \times y^2$

[b] Find four rational numbers between : zero and $\frac{1}{2}$

[c] The following table shows Gehad's marks of mathematics in 6 months:

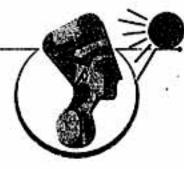
Months	October	November	December	February	March	April
Marks	31	35	42	36	46	50

Find: 1 The arithmetic mean.

2 The median.

El-Menia Governorate

Maghagha Educational Directorate St. Mark & El Tewfik Schools



Answer the following questions:

Choose the correct answer:

1 The number $\frac{x-3}{x+5}$ is a rational number if $x \neq \cdots$

(a) 3

$$(b) - 5$$

$$(d) - 3$$

(a) 4

 $3\frac{3y}{5} - \frac{y}{5} = \dots$

(a) $\frac{2}{5}$

(b)
$$\frac{y}{5}$$

(c)
$$\frac{2y}{5}$$

4 The algebraic expression: $x^3 - 3x^2 + 4$ is of the degree.

(a) 1st

5 If $\frac{15}{x} = \frac{-3}{4}$, then $x = \dots$

(a) - 20

$$(b) - 5$$

6 $(x + y) (x - y) = \dots$

(a) 2 X

(b)
$$(x - y)^2$$

(c)
$$\chi^2$$

(d)
$$\chi^2 - y^2$$

Complete the following:

1 The mean of the numbers: 10, 4, 7, 3, 1 is

2 If $(x-y)(3x+2y) = 3x^2 + kxy - 2y^2$, then $k = \dots$



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- 3 The coefficient of the algebraic term $(-5 \times y^2)$ is
- 4 The rational number which hasn't a multiplicative inverse is
- 5 If the order of the median of a set of values is fourth, then the number of these values is
- [a] Find three rational numbers lying between: $\frac{1}{3}$ and $\frac{1}{2}$
 - [b] Simplify: $(2 \times + 3)^2 12 \times$, then find the numerical value of the result at X = -2
- [a] Using the distribution property, find the value of : $\frac{3}{7} \times 10 + \frac{3}{7} \times 5 \frac{3}{7}$
 - [b] Divide: $(x^2 + 6x + 5)$ by (x + 5) where $(x \ne -5)$
- [a] Factorize by taking out the H.C.F.: $3 \text{ m}^4 \text{ n}^2 6 \text{ m}^3 \text{ n}^3 + 9 \text{ m}^2 \text{ n}^4$
 - [b] Subtract: $(-x^2-4x+7)$ from (x^2-4x-2)
 - [c] Find k if the arithmetic mean of the values: 27,8,16,24,6,k is 14

Aswan Governorate

M.M. Yeckoub English Language Government School



Answer the following questions:

Choose the correct answer:

- 1 The algebraic term 6×3 y is of the degree.
 - (a) first
- (b) fourth
- (c) sixth
- (d) fifth
- The mode of the values: 7,5,x+4,5,7 is 5, then $x = \dots$
 - (a) 1

- 3 If the rational number $\frac{x-2}{x+3} = 0$, then the value of $x = \dots$
 - (a) 1
- (b) 2
- -(c) 2
- (d) 3
- 4 The multiplicative inverse of the number $3\frac{2}{5}$ is
 - (a) $-3\frac{2}{5}$
- (b) $3\frac{2}{5}$ (c) $\frac{17}{5}$
- (d) $\frac{5}{17}$

- 5 Subtracting 2 X from 3 X equals
 - (a) X
- (b) -5 X
- (c) 5 X
- $(d) 6 X^2$

- **6** $(3 \times + 5) (\times + 2) = 3 \times^2 + \dots + 10$
 - (a) 7
- (b) 11 X
- (c) 5 X
- (d) $7 \times$



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Algebra

التخصل الكولسي الكول

2 Complete:

1 5
$$x^3$$
 y 3 × = 15 x^4 y⁵

2 If
$$\frac{x}{y} = 1$$
, then $5x - 5y = \dots$

$$31\frac{2}{5} \times \dots = 1$$

4 The number that lies at half way between $\frac{1}{4}$ and $\frac{5}{8}$ is

5 The median for the values: 4,8,3,5,7 is

3 [a] Add: 3x-2y+5 and x+2y-2

[b] Find three rational numbers that lie between: $\frac{1}{4}$ and $\frac{1}{2}$

4 [a] Use the distribution property to calculate:

$$\frac{7}{12} \times \frac{23}{45} + \frac{17}{12} \times \frac{23}{45} - 2 \times \frac{23}{45}$$

[b] Divide: $21 \times^2 y - 7 \times y + 35 \times y^3$ by $7 \times y$

[b] Simplify to the simplest form: $(5 \times -2)^2 - (5 \times -2) (5 \times +2) + 7$

[c] The following table shows Habiba's marks of mathematics in 6 months:

The month	Oct.	Nov.	Dec.	Feb.	March.	April
The mark	41	35	47	37 .	44	48

Find the arithmetic mean of the marks.

أكتب ذاكرولي في البحث وانضم لجروبات ذاكرولي منه رياض الاطفال للصف الثالث الاعدادي





نفوقه في أي عمل عليه الطامة دي فري

